**STANDARD 11: CAPSTONE PROJECT: A culminating project is required for each student at all grade levels (9 – 12)**

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| **GRADE** | **PROJECT TITLE** | **DESCRIPTION OF PROJECT:** | **LENGTH OF PROJECT** | **# STUDENTS SERVED** |
| 9 | Beach transport design project | Design and create device to transport materials to the beach. Create device on CAD, create powerpoint, and present to class | 2 weeks | 46 |
| 10 | Design and build ballistic launch device | Design and build a device to launch a ping pong ball. Includes drawings, building, and testing at various angles to calculate velocities | 2weeks | 42 |
| 11 | Program and operate boe bot | Build, test, and program a boe bot using Basic Stamp language to avoid obstacles using infrared sensors. | 3weeks | 26 |
| 12 | Design and create a wooden box | Create the design on CAD, import design into Edgecam software, create G & M code for CNC machine and mill final product | 3 weeks | 6 |
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